

Notice of Allowability

Application No.

10/726,257

Examiner

Nikita Wells

Applicant(s)

AGUIRRE ET AL.

Art Unit

2881

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to RCE and "Amendment and Response" received 20 September 2006.
2. ☒ The allowed claim(s) is/are 1-37.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date <u>See Continuation Sheet</u> | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

Nikita Wells
Primary Examiner
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Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 11/14/06, 09/20/06, 04/25/06.

DETAILED ACTION

Allowable Subject Matter

1. Claims 1-37 are allowed.
2. The following is an examiner's statement of reasons for allowance:

The Applicant amended the independent claims 1, 19, and 31, and presented arguments in favor of allowance of the amended claims according to the "Amendment and Response" received September 20, 2006. With respect to the amended independent claims 1, 19, and 31, the Applicant demonstrated to the Examiner's satisfaction that the 35 U.S.C. 103(a) rejections, over the references of A.Z. Hed (5,301,090), Decaudin et al. (6,692,250), and Bi et al. (2003/0117691 A1), are no longer applicable to the Applicant's invention.

With respect to the independent claim 1, A.Z. Hed, Decaudin et al., or Bi et al., as well as any other prior art, fail to disclose, in combination with other recited features of the claim limitations, a radiation curing apparatus, comprising: a plurality of solid state radiation sources to generate radiation that cures a first material; a plurality of optical concentrators, wherein each concentrator receives radiation from a corresponding one of said solid state radiation sources; a plurality of optical waveguides, wherein each first end receives concentrated radiation from a corresponding concentrator; and an interconnect circuit layer to provide electrical connection to the plurality of solid state radiation sources, the interconnect circuit layer comprising a dielectric top layer between each solid state radiation source, an electrically conductive adhesive between the solid state radiation source and a conductive layer that carries electrical current to the solid state radiation source, and a substrate layer beneath the conductive layer.

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With respect to the independent claims 19 and 31, A.Z. Hed, Decaudin et al., or Bi et al., as well as any other prior art, fail to disclose, in combination with other recited features of the claim limitations, a radiation curing apparatus and method comprising: a plurality of LED dies to generate ultraviolet radiation that cures a radiation curable chemical formulation; a plurality of optical concentrators within a concentrator array body, wherein each concentrator receives ultraviolet radiation from a corresponding one of said LED dies and wherein the concentrator array body has a depression where each optical concentrator is located; a plurality of optical fibers within a fiber array connector, wherein each first end receives concentrated ultraviolet radiation from a corresponding concentrator and wherein the fiber array connector includes a protrusion (or alignment hole) where each first end is located and wherein the protrusion of the fiber array connector is seated within the depression of the concentrator array body such that each concentrator is aligned with each fiber end.

The dependent claims 2-18, 20-22, 24-25, and 30, are allowed by virtue of their dependence upon the independent claim 1. The dependent claims 23 and 26-29 are allowed by virtue of their dependence upon the independent claim 19. The dependent claims 32-37 are allowed by virtue of their dependence upon the independent claim 31.

Conclusion

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nikita Wells whose telephone number is (571) 272-2484. The examiner can normally be reached on 8:30 AM - 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn, can be reached on (571) 272-2312. The central fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Nikita Wells, Primary Examiner
Art Unit 2881
December 9, 2006